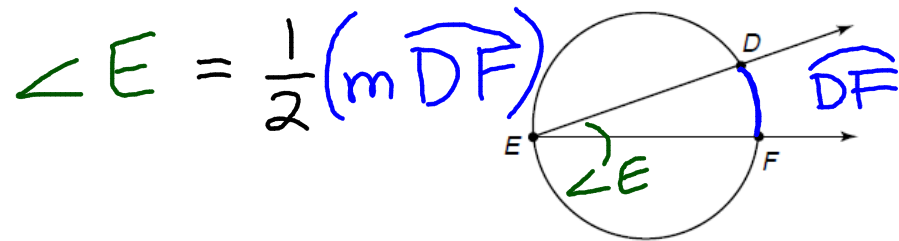
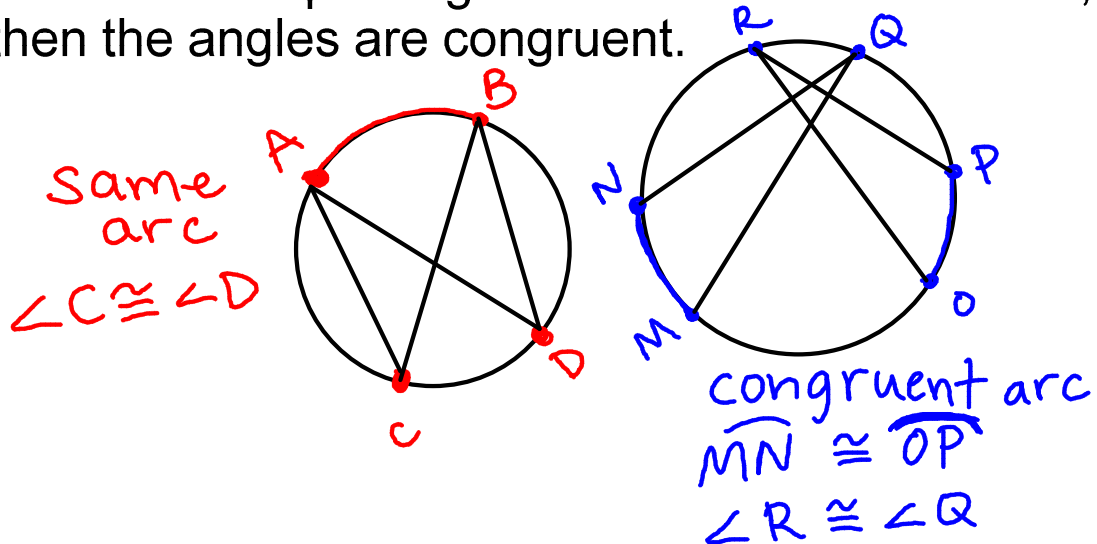


An **inscribed angle** of a circle is an angle whose vertex is on the circle and whose sides contain chords of the circle.

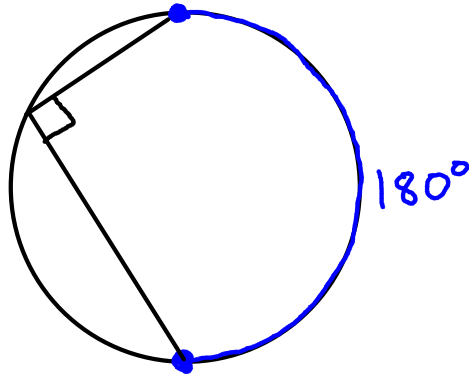
If an angle is inscribed in a circle, then the measure of the angle equals one-half the measure of its intercepted arc.



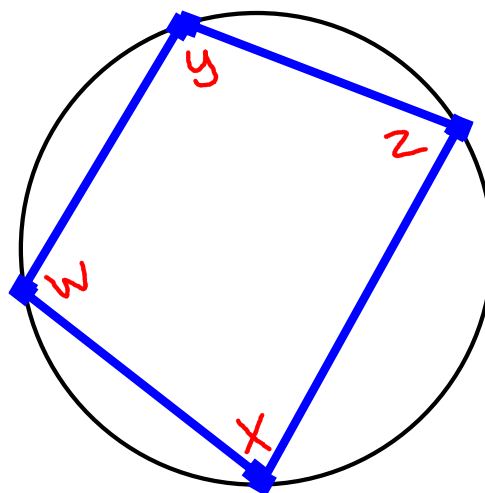
If two inscribed angles of a circle or congruent circles intercept congruent arcs or the same arc, then the angles are congruent.



If an inscribed angle of a circle intercepts a semicircle, then the angle is a right angle.



If a quadrilateral is inscribed in a circle, then its opposite angles are supplementary.



$$y + x = 180$$
$$w + z = 180$$

